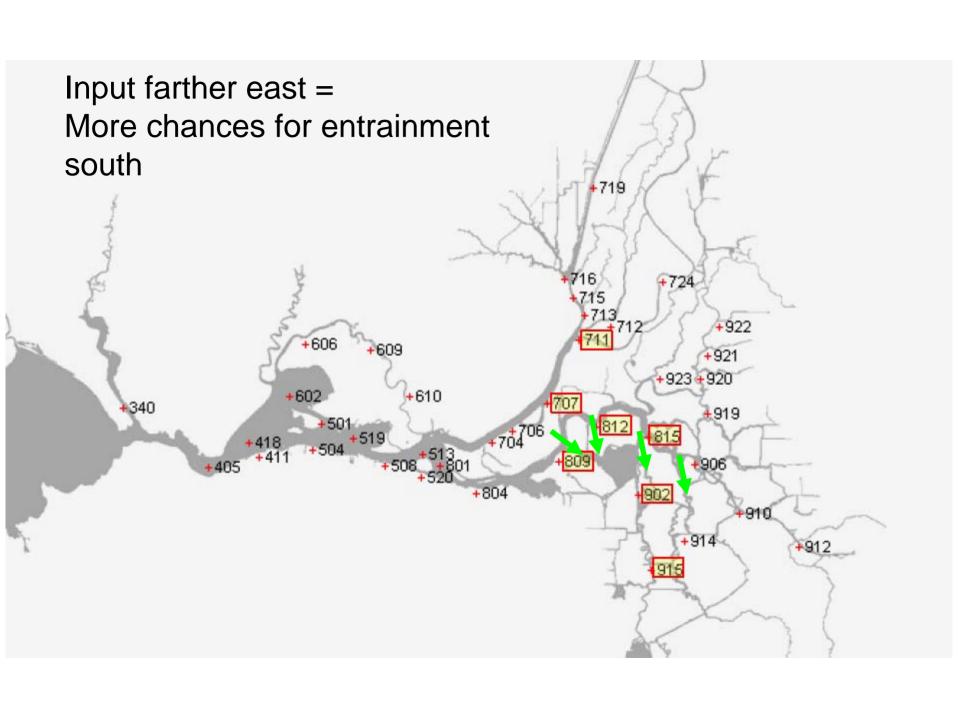
DSM-2 as a SWG tool

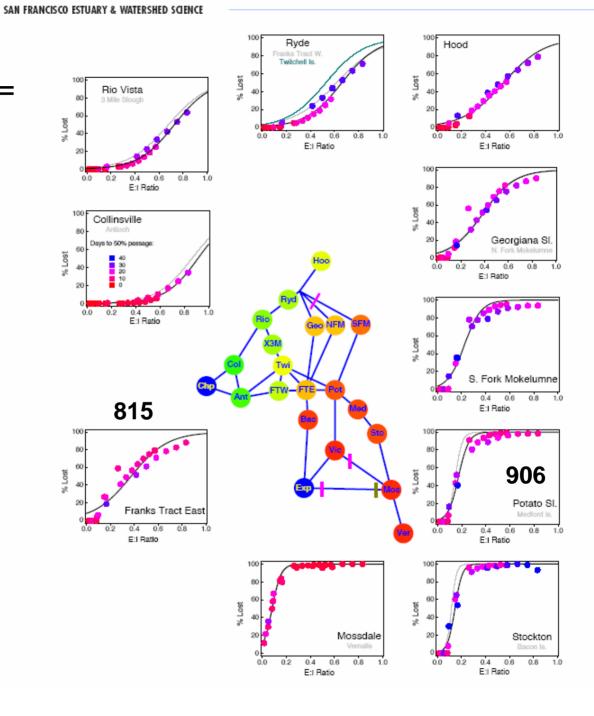
Matt Nobriga and Randy Baxter 3/23/2009

Data sources: Kimmerer and Nobriga (SFEWS 2008)

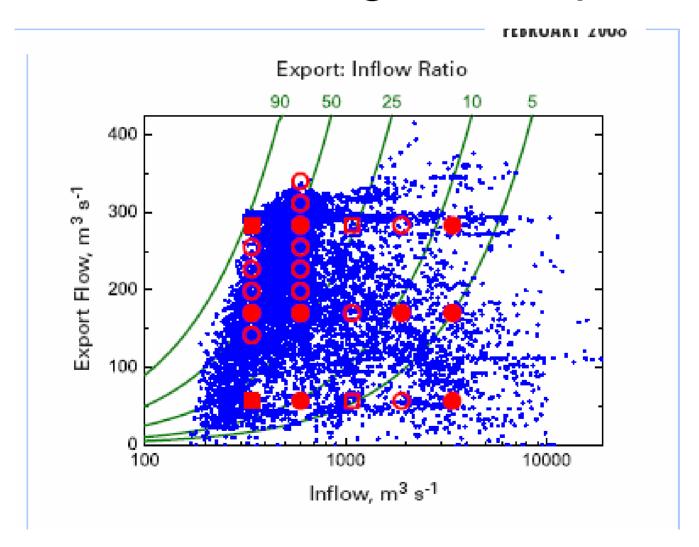
Baxter et al. (2009; effects analysis for longfin smelt CESA take permit)



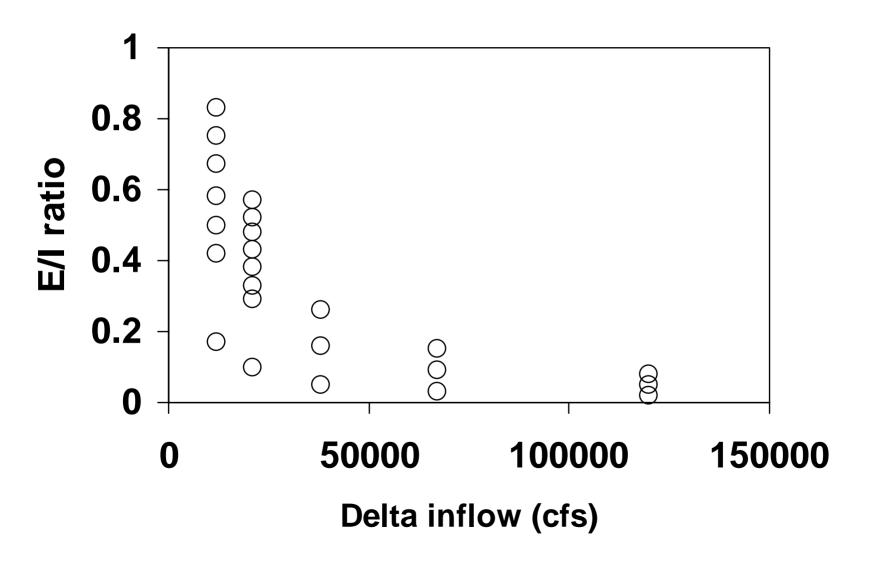
Input farther east = More chances for entrainment south



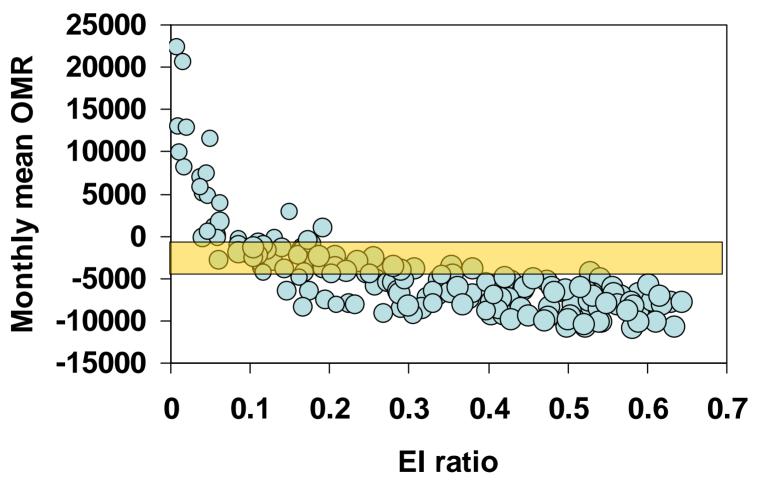
Most of the time there's low-ish outflow and high-ish exports



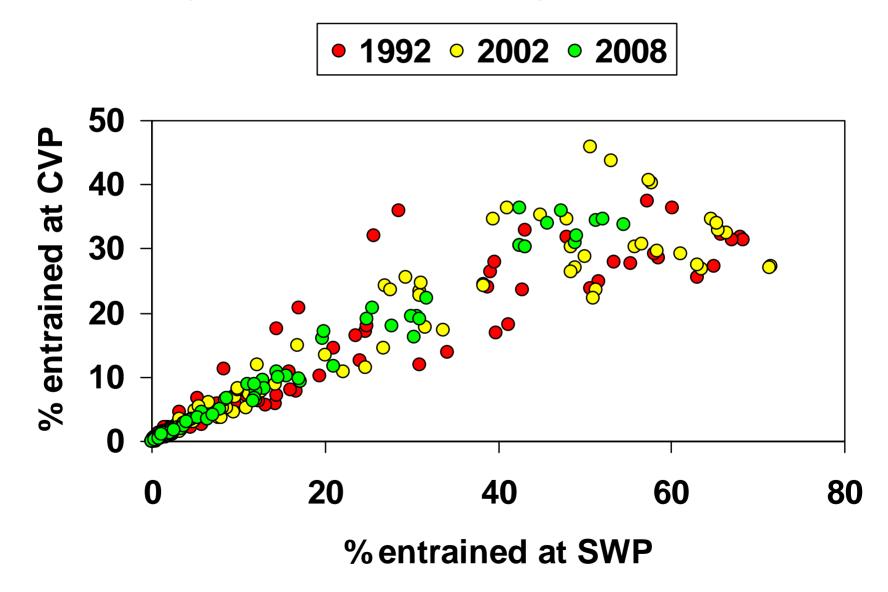
Flow constrains project effects



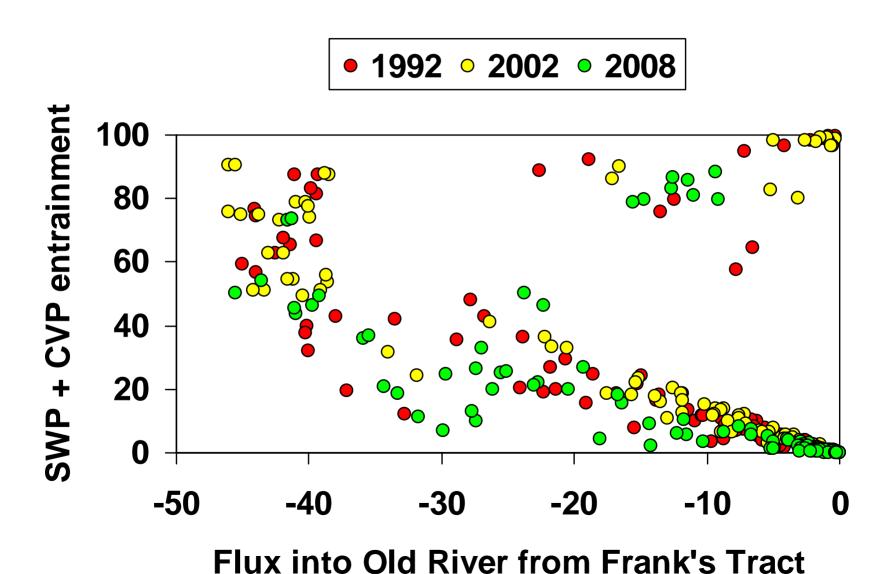
OMR is not uber-predictable based on El ratio – even on a monthly time scale



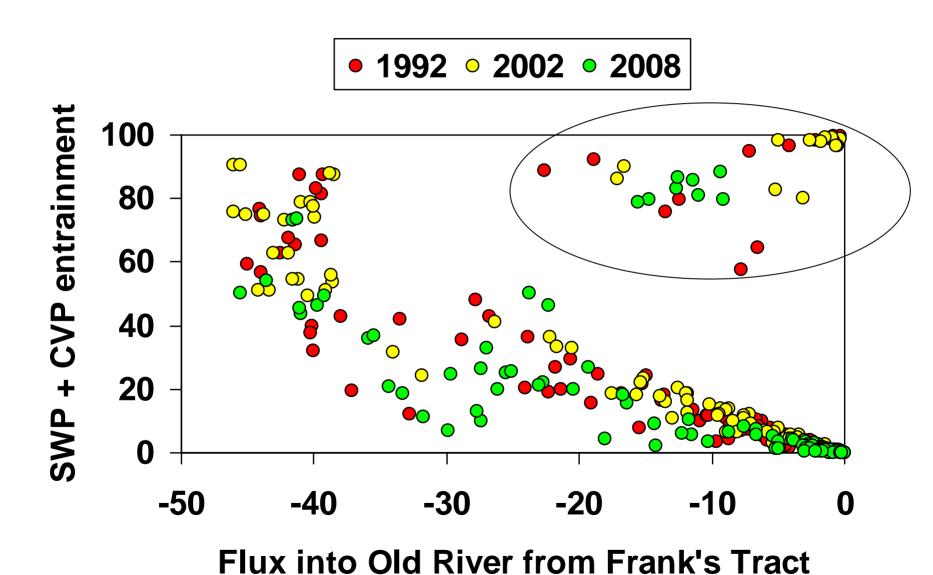
When you're f---ed, you're f---ed



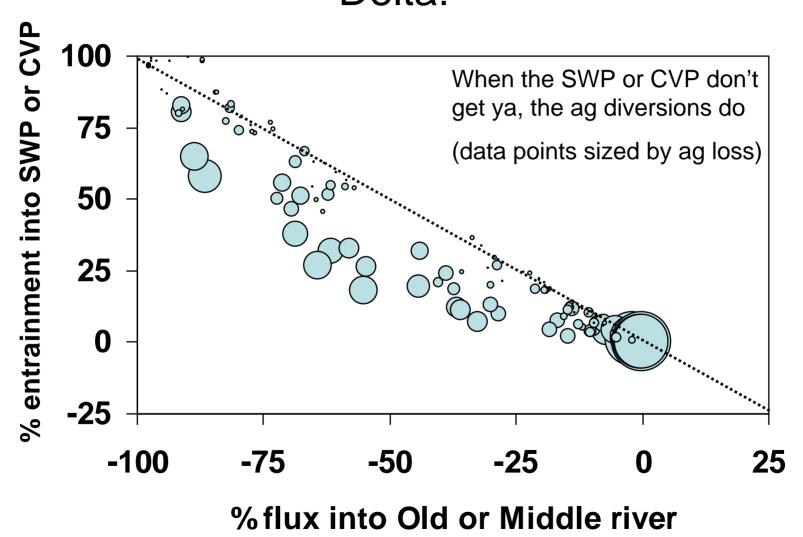
Fish need to stay out of Old River

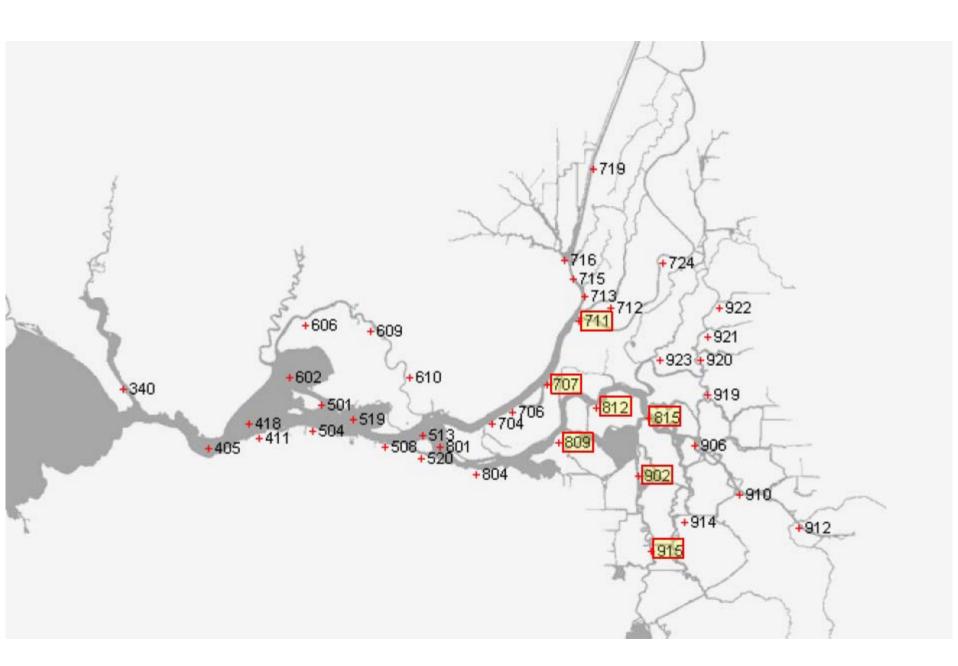


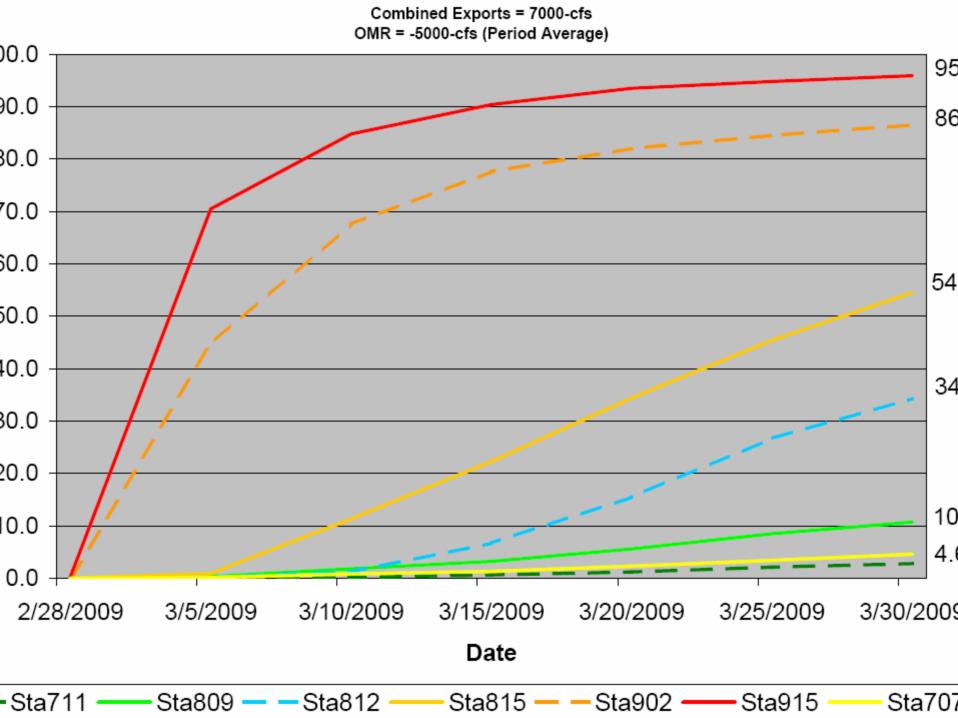
Fish need to stay out of Old River

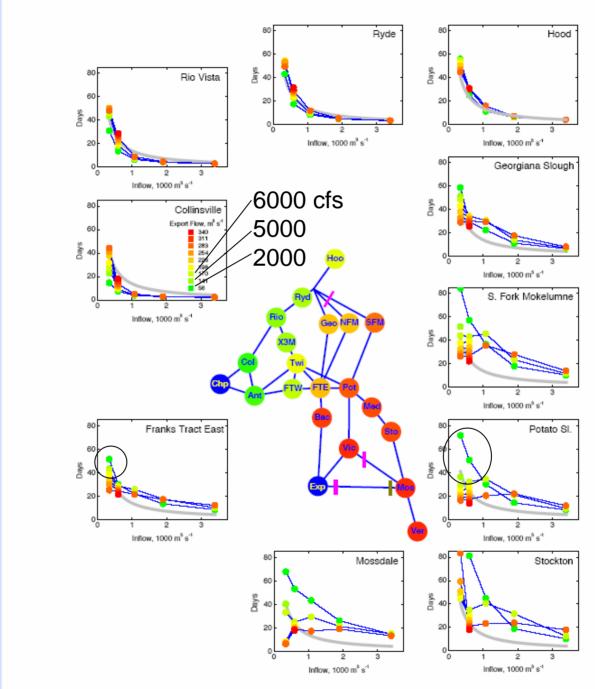


Actually, fish need to stay out of the south Delta!

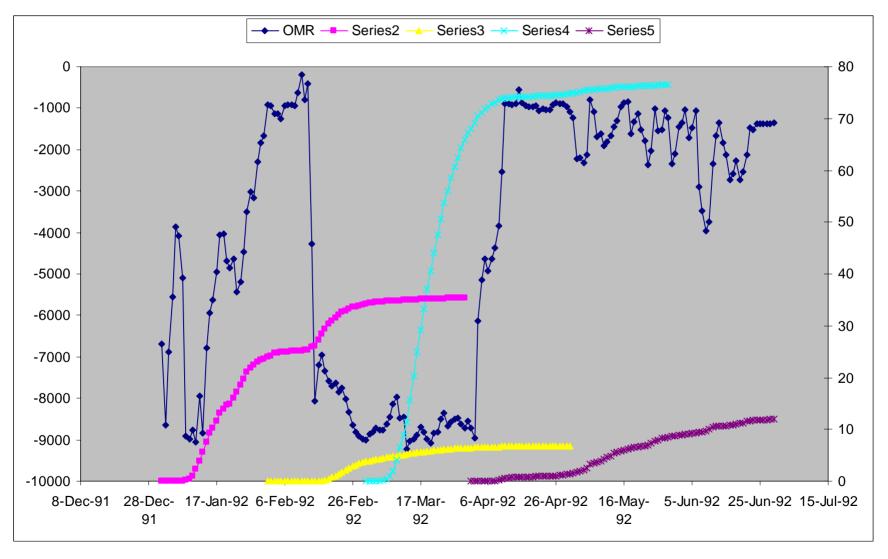


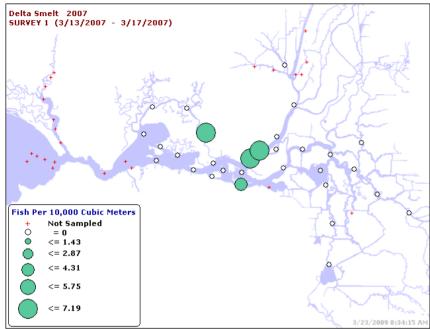


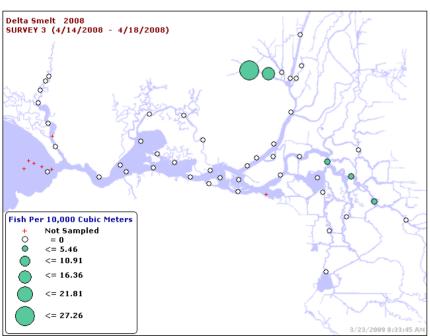


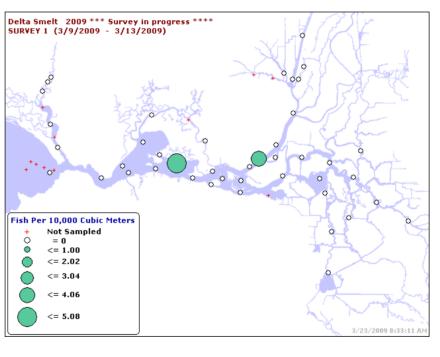


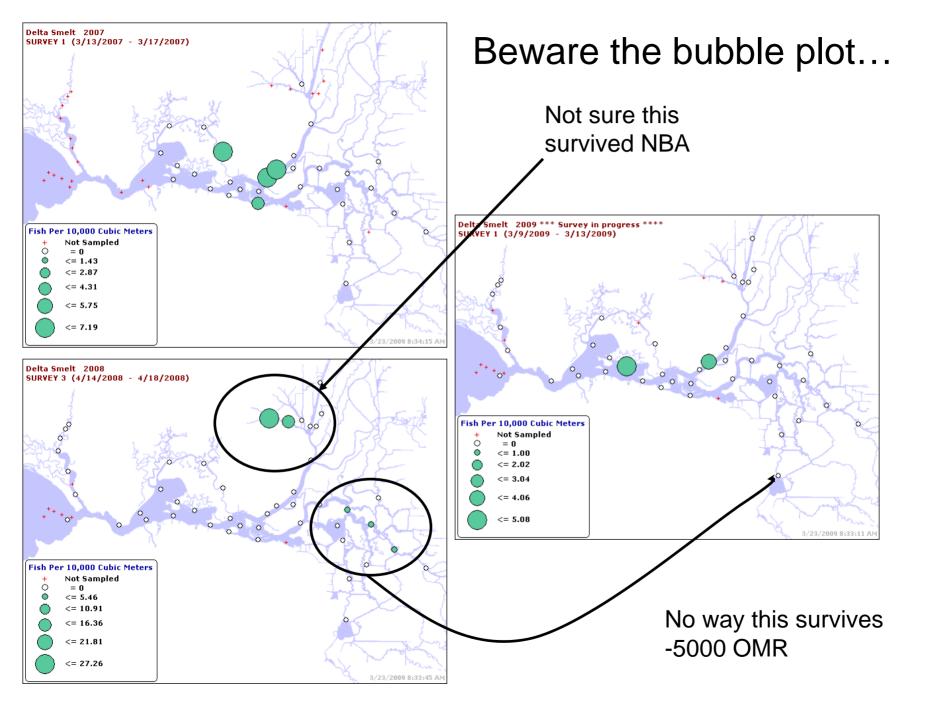
SJR (812) particle fates are sensitive to initial conditions of OMR



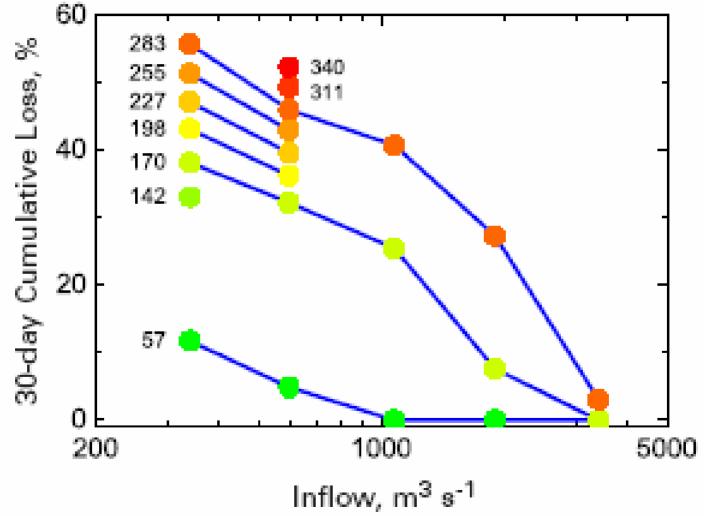








At low flow, exports have to be reduced a lot to greatly change larval delta smelt entrainment



Conclusions

- In dry years, ptm says stay out of south Delta channels
 - Emphasizes initial condition
 - Fish aren't particles

- Keep using one month planning horizon
 - Design flow experiments into ptm requests